

# Alcatel 7750 SR

## 设备查看命令

上海贝尔阿尔卡特股份有限公司

互联网事业部

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## 1、系统运行状态查看

### 1.1 查看路由器硬件状态

# show chassis

A:YZ-SYL-R-AC7750-01# show chassis

#### Chassis Information

```
=====
Name                : YZ-SYL-R-AC7750-01
Type                : 7750 SR-12
Location            :
Coordinates         :
CLLI code           :
Number of slots     : 12
Number of ports     : 60
Critical LED state  : Off
Major LED state     : Off
Minor LED state     : Off
Base MAC address    : 00:03:fa:df:fb:56
Admin chassis mode  : c
Oper chassis mode   : c
=====
```

#### Hardware Data

```
Part number         : 3HE00104AAAB01
CLEI code           : IPME400FRA
Serial number       : NS061751349
Manufacture date    : 05022006
Manufacturing string :
Manufacturing deviations :
Time of last boot   : 2006/11/15 01:39:03
Current alarm state : alarm cleared
```

#### Environment Information

```
Number of fan trays : 3
Number of fans      : 6

Fan tray number     : 1
Status              : up
Speed               : half speed

Fan tray number     : 2
```

Status : up  
Speed : half speed

Fan tray number : 3  
Status : up  
Speed : half speed

#### Power Supply Information

Number of power supplies : 2

Power supply number : 1  
Defaulted power supply type : dc  
Status : up

Power supply number : 2  
Defaulted power supply type : dc  
Status : up

=====

A:YZ-SYL-R-AC7750-01#

#### # show card

A:YZ-SYL-R-AC7750-01# show card

#### Card Summary

=====

Slot	Provisioned Card-type	Equipped Card-type	Admin State	Operational State
1	iom2-20g	iom2-20g	up	up
2	iom2-20g	iom2-20g	up	up
3	iom2-20g	iom2-20g	up	up
A	sfm-400g	sfm2-200g	up	up/active
B	sfm-400g	sfm2-200g	up	up/standby

=====

A:YZ-SYL-R-AC7750-01# show card a detail

#### Card A

=====

Slot	Provisioned Card-type	Equipped Card-type	Admin State	Operational State
------	--------------------------	-----------------------	----------------	----------------------

-----  
A            sfm-400g            sfm2-200g            up            up/active

BOF last modified            : N/A  
Config file version            : TUE NOV 14 15:46:33 2006 UTC  
Config file last modified     : 2006/11/29 23:23:28  
Config file last saved        : 2006/11/28 16:15:09  
CPM redundancy status        : active

Flash - cf1:

Administrative State        : up  
Operational state            : not equipped

Flash - cf2:

Administrative State        : up  
Operational state            : not equipped

Flash - cf3:

Administrative State        : up  
Operational state            : up  
Serial number                : 146CT066S0763SC0153  
Firmware revision            : V2.23  
Model number                : SILICONSYSTEMS INC 256MB  
Size                         : 253,932 KB  
Free space                    : 68,488 KB

Hardware Data

Part number                 : 3HE01171AAAA01  
CLEI code                    : IPUCAEAFAA  
Serial number                : NS061750736  
Manufacture date             : 05092006  
Manufacturing string         :  
Manufacturing deviations     :  
Administrative state         : up  
Operational state            : up  
Temperature                  : 43C  
Temperature threshold        : 75C  
Software boot version        : X-4.0.R1 on Thu Apr 27 12:42:18 PST 2006 b\*  
Software version             : TiMOS-C-4.0.R3 cpm/hops ALCATEL SR 7750 Co\*  
Time of last boot            : 2006/11/15 01:39:03  
Current alarm state          : alarm cleared  
Base MAC address             : 00:03:fa:ac:ea:da  
Memory capacity              : 2,016 MB

=====

A:YZ-SYL-R-AC7750-01#

# show mda

A:YZ-SYL-R-AC7750-01# show mda

=====

MDA Summary

=====

Slot	Mda	Provisioned Mda-type	Equipped Mda-type	Admin State	Operational State
-----					
1	1	m10-1gb-sfp	m10-1gb-sfp	up	up
	2	m10-1gb-sfp	m10-1gb-sfp	up	up
2	1	m10-1gb-sfp	m10-1gb-sfp	up	up
	2	m10-1gb-sfp	m10-1gb-sfp	up	up
3	1	m10-1gb-sfp	m10-1gb-sfp	up	up
	2	m10-1gb-sfp	m10-1gb-sfp	up	up

=====

A:YZ-SYL-R-AC7750-01# show mda 1/1 detail

=====

MDA 1/1 detail

=====

Slot	Mda	Provisioned Mda-type	Equipped Mda-type	Admin State	Operational State
-----					
1	1	m10-1gb-sfp	m10-1gb-sfp	up	up

MDA Specific Data

Maximum port count : 10

Number of ports equipped : 10

Network ingress queue policy : JSYZ-NIQ

Capabilities : Ethernet

Hardware Data

Part number : 3HE00026AAAC01

CLEI code : IPPAAANBAA

Serial number : NS061350207

Manufacture date : 03272006

```

Manufacturing string      :
Manufacturing deviations  :
Administrative state      : up
Operational state        : up
Temperature               : 41C
Temperature threshold     : 75C
Time of last boot        : 2006/11/15 01:39:51
Current alarm state      : alarm cleared
Base MAC address         : 00:03:fa:c6:ff:4c
  
```

=====

A:YZ-SYL-R-AC7750-01#

## 1.2 查看物理端口状态

#show port

A:YZ-SYL-R-AC7750-01# show port

=====

Ports on Slot 1

Port Id	Admin State	Link State	Port State	Cfg MTU	Oper MTU	LAG/ BndI	Port Mode	Port Encp	Port Type	SFP/XFP/ MDIMDX
1/1/1	Up	Yes	Up	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/1/2	Up	Yes	Up	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/1/3	Up	Yes	Up	1518	1518	-	accs	dotq	gige	GIGE-LX 10KM
1/1/4	Up	Yes	Up	1518	1518	-	accs	dotq	gige	GIGE-LX 10KM
1/1/5	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/1/6	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/1/7	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/1/8	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/1/9	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/1/10	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/2/1	Up	Yes	Up	1518	1518	-	accs	dotq	gige	GIGE-LX 10KM
1/2/2	Up	No	Down	1518	1518	-	accs	dotq	gige	GIGE-LX 10KM
1/2/3	Up	No	Down	1518	1518	-	accs	dotq	gige	GIGE-LX 10KM
1/2/4	Down	No	Down	1518	1518	-	accs	dotq	gige	GIGE-LX 10KM
1/2/5	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM
1/2/6	Down	No	Down	9212	9212	-	netw	null	gige	GIGE-LX 10KM

1/2/7	Down	No	Down	9212	9212	- netw null gige	GIGE-LX	10KM
1/2/8	Down	No	Down	9212	9212	- netw null gige	GIGE-LX	10KM
1/2/9	Down	No	Down	9212	9212	- netw null gige	GIGE-LX	10KM
1/2/10	Down	No	Down	9212	9212	- netw null gige	GIGE-LX	10KM

#### Ports on Slot 2

Port Id	Admin State	Link State	Port State	Cfg MTU	Oper MTU	LAG/ BndI	Port Mode	Port Encp	Port Type	SFP/XFP/ MDIMDX
2/1/1	Up	Yes	Up	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/2	Up	Yes	Up	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/3	Up	Yes	Up	1518	1518	- accs	dotq	gige	GIGE-LX	10KM
2/1/4	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/5	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/6	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/7	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/8	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/9	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/1/10	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/2/1	Up	Yes	Up	1518	1518	- accs	dotq	gige	GIGE-LX	10KM
2/2/2	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	10KM
2/2/3	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
2/2/4	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
2/2/5	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
2/2/6	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
2/2/7	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
2/2/8	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
2/2/9	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
2/2/10	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM

#### Ports on Slot 3

Port Id	Admin State	Link State	Port State	Cfg MTU	Oper MTU	LAG/ BndI	Port Mode	Port Encp	Port Type	SFP/XFP/ MDIMDX
3/1/1	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
3/1/2	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
3/1/3	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
3/1/4	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
3/1/5	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM
3/1/6	Down	No	Down	9212	9212	- netw	null	gige	GIGE-LX	40KM



```

3/1/7      Down No Down 9212 9212 - netw null gige GIGE-LX 80KM
3/1/8      Down No Down 9212 9212 - netw null gige GIGE-LX 80KM
3/1/9      Down No Down 9212 9212 - netw null gige GIGE-LX 80KM
3/1/10     Down No Down 9212 9212 - netw null gige GIGE-LX 80KM
3/2/1      Down No Down 9212 9212 - netw null gige GIGE-LX 80KM
3/2/2      Down No Down 9212 9212 - netw null gige GIGE-LX 80KM
3/2/3      Down No Down 9212 9212 - netw null gige GIGE-LX 80KM
3/2/4      Down No Down 9212 9212 - netw null gige GIGE-SX
3/2/5      Down No Down 9212 9212 - netw null gige GIGE-SX
3/2/6      Down No Down 9212 9212 - netw null gige GIGE-SX
3/2/7      Down No Down 9212 9212 - netw null gige
3/2/8      Down No Down 9212 9212 - netw null gige
3/2/9      Down No Down 9212 9212 - netw null gige
3/2/10     Down No Down 9212 9212 - netw null gige

```

=====  
Ports on Slot A

```

=====  
Port      Admin Link Port  Cfg Oper LAG/ Port Port Port  SFP/XFP/  
Id        State      State MTU  MTU  BndI Mode Encp Type  MDIMDX  
-----  
A/1       Up      No   Down  1514 1514 - netw null faste

```

=====  
Ports on Slot B

```

=====  
Port      Admin Link Port  Cfg Oper LAG/ Port Port Port  SFP/XFP/  
Id        State      State MTU  MTU  BndI Mode Encp Type  MDIMDX  
-----  
B/1       Up      No   Down  1514 1514 - netw null faste

```

=====  
A:YZ-SYL-R-AC7750-01#

#show port id(x/x/x,x/x/x..) [detail]

A:YZ-SYL-R-AC7750-01# show port 1/1/1 detail

=====  
Ethernet Interface  
=====

Description	: 1-Gig Ethernet SFP		
Interface	: 1/1/1	Oper Speed	: 1 Gbps
Link-level	: Ethernet	Config Speed	: N/A
Admin State	: up	Oper Duplex	: full
Oper State	: up	Config Duplex	: N/A
Physical Link	: Yes	MTU	: 9212
IfIndex	: 18907136	Hold time up	: 0 seconds
Last State Change	: 11/15/2006 01:39:53	Hold time down	: 0 seconds

Configured Mode	: network	Encap Type	: null
Dot1Q Ethertype	: 0x8100	QinQ Ethertype	: 0x8100
Net. Egr. Queue Pol	: default		
Auto-negotiate	: false	MDI/MDX	: N/A
Accounting Policy	: None	Collect-stats	: Disabled
Egress Rate	: Default	Ingress Rate	: Default
Load-balance-algo	: default		

Configured Address : 00:03:fa:c6:ff:4c  
Hardware Address : 00:03:fa:c6:ff:4c  
Cfg Alarm :  
Alarm Status :

Transceiver Data

Transceiver Type	: SFP		
Model Number	: 3HE00028AAAA01	ALA	IPUIAEMDAA=
Transceiver Code	: GIGE-LX		
TX Laser Wavelength	: 1310 nm	Diag Capable	: no
Connector Code	: LC	Vendor OUI	: 00:0a:1d
Manufacture date	: 2006/05/05	Media	: Ethernet
Serial Number	: 00003932710		
Part Number	: TRPNG1LXDBBS-TM		
Optical Compliance	: GIGE-LX		
Link Length support	: 10km for SMF;		

=====  
Traffic Statistics  
=====

Input

Output

```
-----
Octets                      7649315672660      6807629497413
Packets                    11090408733      13507948706
Errors                      0              0
```

```
=====
Ethernet Statistics
=====
```

```
Broadcast Pkts :          2 Drop Events :          0
Multicast Pkts :        1543727 CRC/Align Errors :          0
Undersize Pkts :          0 Fragments :          0
Oversize Pkts :          0 Jabbers :          0
Collisions :          0
```

```
Octets : 14456945170073
Packets : 24598357439
Packets of 64 Octets : 4849684820
Packets of 65 to 127 Octets : 7271812018
Packets of 128 to 255 Octets : 1838819639
Packets of 256 to 511 Octets : 585878818
Packets of 512 to 1023 Octets : 1618216965
Packets of 1024 to 1518 Octets : 8117037494
Packets of 1519 or more Octets : 316907685
```

```
=====
Port Statistics
=====
```

```

                                     Input      Output
-----
Unicast Packets                    11089200238      13507613472
Multicast Packets                   1208494          335233
Broadcast Packets                     1              1
Discards                             0              0
Unknown Proto Discards                0
```

```
=====
Ethernet-like Medium Statistics
=====
```

```
Alignment Errors :          0 Sngl Collisions :          0
FCS Errors :          0 Mult Collisions :          0
```

```

SQE Test Errors : 0 Late Collisions : 0
CSE : 0 Excess Collisns : 0
Too long Frames : 0 Int MAC Tx Errs : 0
Symbol Errors : 0 Int MAC Rx Errs : 0
=====

```

=====

Queue Statistics

=====

```

-----
Ingress Queue 2      Packets      Octets
  In Profile forwarded : 0              0
  In Profile dropped   : 0              0
  Out Profile forwarded : 11086173458    7644531583241
  Out Profile dropped   : 0              0
Ingress Queue 3      Packets      Octets
  In Profile forwarded : 0              0
  In Profile dropped   : 0              0
  Out Profile forwarded : 0              0
  Out Profile dropped   : 0              0
Ingress Queue 4      Packets      Octets
  In Profile forwarded : 44516          2932921
  In Profile dropped   : 0              0
  Out Profile forwarded : 0              0
  Out Profile dropped   : 0              0
Ingress Queue 5      Packets      Octets
  In Profile forwarded : 18029          1693345
  In Profile dropped   : 0              0
  Out Profile forwarded : 0              0
  Out Profile dropped   : 0              0
Ingress Queue 6      Packets      Octets
  In Profile forwarded : 0              0
  In Profile dropped   : 0              0
  Out Profile forwarded : 0              0
  Out Profile dropped   : 0              0
Ingress Queue 12     Packets      Octets
  In Profile forwarded : 0              0
  In Profile dropped   : 0              0
  Out Profile forwarded : 0              0
  Out Profile dropped   : 0              0

Egress Queue 1       Packets      Octets
  In Profile forwarded : 0              0

```

In Profile	dropped	:	0	0
Out Profile	forwarded	:	13507558963	6807579553467
Out Profile	dropped	:	0	0
Egress Queue	2		Packets	Octets
In Profile	forwarded	:	0	0
In Profile	dropped	:	0	0
Out Profile	forwarded	:	0	0
Out Profile	dropped	:	0	0
Egress Queue	3		Packets	Octets
In Profile	forwarded	:	0	0
In Profile	dropped	:	0	0
Out Profile	forwarded	:	0	0
Out Profile	dropped	:	0	0
Egress Queue	4		Packets	Octets
In Profile	forwarded	:	0	0
In Profile	dropped	:	0	0
Out Profile	forwarded	:	0	0
Out Profile	dropped	:	0	0
Egress Queue	5		Packets	Octets
In Profile	forwarded	:	0	0
In Profile	dropped	:	0	0
Out Profile	forwarded	:	0	0
Out Profile	dropped	:	0	0
Egress Queue	6		Packets	Octets
In Profile	forwarded	:	0	0
In Profile	dropped	:	0	0
Out Profile	forwarded	:	0	0
Out Profile	dropped	:	0	0
Egress Queue	7		Packets	Octets
In Profile	forwarded	:	581	108066
In Profile	dropped	:	0	0
Out Profile	forwarded	:	0	0
Out Profile	dropped	:	0	0
Egress Queue	8		Packets	Octets
In Profile	forwarded	:	363238	37062560
In Profile	dropped	:	0	0
Out Profile	forwarded	:	0	0
Out Profile	dropped	:	0	0

=====

A:YZ-SYL-R-AC7750-01#

### 1.3 查看系统环境状态

# show chassis environment

A:YZ-SYL-R-AC7750-01# show chassis environment

```
=====
Chassis Information
=====
```

Environment Information

```
Number of fan trays      : 3
Number of fans           : 6

Fan tray number          : 1
Status                   : up
Speed                   : half speed

Fan tray number          : 2
Status                   : up
Speed                   : half speed

Fan tray number          : 3
Status                   : up
Speed                   : half speed
=====
```

#show system cpu

A:YZ-SYL-R-AC7750-01# show system cpu

```
=====
CPU Utilization (Test time 999455 uSec)
=====
```

Name	CPU Time (uSec)	CPU Usage
System	19927	1.99%
Icc	1941	0.19%

RTM/Policies	580	0.05%
OSPF	185	0.01%
MPLS/RSVP	2437	0.24%
LDP	13339	1.33%
IS-IS	3854	0.38%
RIP	0	0.00%
VRRP	0	0.00%
BGP	489	0.04%
Services	291	0.02%
IOM	0	0.00%
CFLOWD	0	0.00%
IGMP	0	0.00%
PIM	0	0.00%
MCast Stack	0	0.00%
IP Stack	9250	0.92%
MBUF	0	0.00%
IGMP Snooping	114	0.01%
TLS MFIB	693	0.06%
WEB Redirect	131	0.01%
Idle	946224	94.67%

=====

A:YZ-SYL-R-AC7750-01#

#show system memory

A:YZ-SYL-R-AC7750-01# show system memory-pools

=====

## Memory Pools

=====

Name	Max Allowed	Current Size	Max So Far	In Use
-----				
System	No limit	56,858,272	66,819,744	46,253,744
Icc	8,388,608	1,048,576	1,048,576	60,704
RTM/Policies	No limit	3,145,728	3,145,728	1,809,896
OSPF	No limit	1,048,576	1,048,576	433,560
MPLS/RSVP	No limit	5,464,464	7,561,616	4,310,728
LDP	No limit	4,194,304	4,194,304	3,380,800
IS-IS	No limit	4,497,472	4,497,472	3,734,648
RIP	No limit	0	0	0
VRRP	No limit	1,048,576	1,048,576	72
BGP	No limit	12,484,800	12,484,800	11,690,304

Services	No limit	3,145,728	3,145,728	2,833,144
IOM	No limit	0	0	0
CFLOWD	No limit	0	0	0
IGMP	No limit	0	0	0
PIM	No limit	0	0	0
MCast Stack	No limit	1,048,576	1,048,576	32,024
IP Stack	No limit	29,901,264	29,901,264	28,868,504
MBUF	No limit	5,837,312	5,837,312	4,831,872
IGMP Snooping	No limit	1,048,576	1,048,576	135,088
TLS MFIB	No limit	1,048,576	1,048,576	533,712
WEB Redirect	8,388,608	2,097,152	2,097,152	1,361,648

```
-----
Current Total Size :    133,917,952 bytes
Total In Use       :    110,270,448 bytes
Available Memory   :    1,857,171,136 bytes
=====
```

A:YZ-SYL-R-AC7750-01#

#### 1.4 查看系统日志信息

```
# show log log-id xx
```

A:YZ-SYL-R-AC7750-01# show log log-id 99

```
=====
Event Log 99
=====
```

Description : Default System Log

Memory Log contents [size=500 next event=3478 (wrapped)]

3477 2006/11/30 02:33:58.22 BEIJ WARNING: SYSTEM #2009 - IP

"Status of vRtrIfTable: router 1 interface yajdgs (index 82) changed administrative state: inService, operational state: inService"

3476 2006/11/30 02:33:58.22 BEIJ WARNING: SNMP #2005 - yajdgs

"Interface yajdgs is operational"

3475 2006/11/30 02:33:58.22 BEIJ MINOR: SVCNMR #2103 -



"Status of service 21034048 (customer 10) changed to administrative state: up, operational state: up"

3474 2006/11/30 02:33:58.21 BEIJ MINOR: SVCMMGR #2108 -

"Status of interface yajdgs in service 21034048 (customer 10) changed to admin=up oper=up"

3473 2006/11/30 02:33:58.21 BEIJ MINOR: SVCMMGR #2203 -

"Status of SAP 2/1/3:4048 in service 21034048 (customer 10) changed to admin=up oper=up"

3472 2006/11/30 02:33:58.21 BEIJ MINOR: SVCMMGR #2103 -

"Status of service 21034047 (customer 10) changed to administrative state: up, operational state: up"

3471 2006/11/30 02:33:58.21 BEIJ WARNING: SYSTEM #2009 - IP

"Status of vRtrIfTable: router 1 interface yz-lgbj (index 81) changed administrative state: inService, operational state: inService"

3470 2006/11/30 02:33:58.21 BEIJ WARNING: SNMP #2005 - yz-lgbj

"Interface yz-lgbj is operational"

3469 2006/11/30 02:33:58.21 BEIJ MINOR: SVCMMGR #2108 -

"Status of interface yz-lgbj in service 21034047 (customer 10) changed to admin=up oper=up"

3468 2006/11/30 02:33:58.20 BEIJ MINOR: SVCMMGR #2203 -

"Status of SAP 2/1/3:4047 in service 21034047 (customer 10) changed to admin=up oper=up"

Press any key to continue (Q to quit)

A:YZ-SYL-R-AC7750-01# show log log-id 100

=====  
Event Log 100  
=====

Description : **Default Serious Errors Log**

warning: 3462 events dropped from log

Memory Log contents [size=500 next event=16 (not wrapped)]

15 2006/11/29 16:30:58.53 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11

"Log file cf3:\log\log1111-20061128-082916 on compact flash cf3 has been rolled over"

14 2006/11/28 16:29:16.94 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11

"Log file cf3:\log\log1111-20061127-081615 on compact flash cf3 has been rolled over"

13 2006/11/28 16:15:09.15 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds

"Configuration file saved to: cf3:\config.cfg"

12 2006/11/27 16:16:15.26 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11

"Log file cf3:\log\log1111-20061126-075300 on compact flash cf3 has been rolled over"

11 2006/11/26 15:53:00.68 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11

"Log file cf3:\log\log1111-20061125-074859 on compact flash cf3 has been rolled over"

10 2006/11/25 15:48:59.84 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11

"Log file cf3:\log\log1111-20061124-045323 on compact flash cf3 has been rolled over"

9 2006/11/21 11:00:04.78 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds

"Configuration file saved to: cf3:\config.cfg"

8 2006/11/15 05:00:44.01 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds

"Configuration file saved to: cf3:\config.cfg"

7 2006/11/15 01:39:34.85 BEIJ MAJOR: SYSTEM #2025 - Redundancy

"Redundancy synchronization with standby CPM card B has completed. Standby CPM is ready."

6 2006/11/15 01:39:34.06 BEIJ MAJOR: SYSTEM #2024 - Redundancy

"Redundancy synchronization with standby CPM card B is in progress."

Press any key to continue (Q to quit)

## 1.5 基本链路检测命令

#ping ip-address(xxx..xxx.xxx.xxx)

```
A:YZ-SYL-R-AC7750-01# ping 61.177.186.25
PING 61.177.186.25 56 data bytes
64 bytes from 61.177.186.25: icmp_seq=1 ttl=64 time<10ms.
64 bytes from 61.177.186.25: icmp_seq=2 ttl=64 time<10ms.
64 bytes from 61.177.186.25: icmp_seq=3 ttl=64 time<10ms.
64 bytes from 61.177.186.25: icmp_seq=4 ttl=64 time<10ms.
64 bytes from 61.177.186.25: icmp_seq=5 ttl=64 time<10ms.

---- 61.177.186.25 PING Statistics ----
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min < 10ms, avg < 10ms, max < 10ms, stddev < 10ms
A:YZ-SYL-R-AC7750-01#
```

#traceroute ip-address(xxx..xxx.xxx.xxx)

```
A:YZ-SYL-R-AC7750-01# traceroute 61.177.186.25
traceroute to 61.177.186.25, 30 hops max, 40 byte packets
 1  61.177.186.25 (61.177.186.25)    <10 ms  <10 ms  <10 ms
```

#telnet ip-address(xxx..xxx.xxx.xxx)

```
A:YZ-SYL-R-AC7750-01# telnet 61.177.186.25
Trying 61.177.186.25...
Login: admin
Password:

Login: admin
Password:

A:YZ-SYL-R-AC7750-01#
```

## 1.6 查看时钟信息

#show time

A:YZ-SYL-R-AC7750-01# show time

Thu Nov 30 02:48:24 BEIJ 2006

A:YZ-SYL-R-AC7750-01#

## 1.7 查看主副引擎同步信息

#show redundancy synchronization

A:YZ-SYL-R-AC7750-01# show redundancy synchronization

### =====

#### Synchronization Information

### =====

Standby Status	: standby ready
Last Standby Failure	: N/A
Standby Up Time	: 2006/11/15 01:39:21
Standby Version	: TiMOS-C-4.0.R3 cpm/hops ALCATEL SR 7750 Copyright (c) 2000-2006 Alcatel. All rights reserved. All use subject to applicable license agreements. Built on Wed Jul 5 09:06:04 PST 2006 by builder in /rel4.0/b1/R3/panos/main
Failover Time	: N/A
Failover Reason	: N/A
Boot/Config Sync Mode	: Configuration
Boot/Config Sync Status	: Config only synchronized
Last Config File Sync Time	: 11/28/2006 16:15:13
Last Boot Env Sync Time	: Never

### =====

A:YZ-SYL-R-AC7750-01#

## 1.8 检测系统软件版本

# show version

A:YZ-SYL-R-AC7750-01# show version  
 TiMOS-C-4.0.R3 cpm/hops ALCATEL SR 7750 Copyright (c) 2000-2006 Alcatel.  
 All rights reserved. All use subject to applicable license agreements.  
 Built on Wed Jul 5 09:06:04 PST 2006 by builder in /rel4.0/b1/R3/panos/main  
 A:YZ-SYL-R-AC7750-01#

## 2、路由协议查看

### 2.1 查看网络接口状态

#show route interface

A:YZ-SYL-R-AC7750-01# show router interface

Interface Table (Router: Base)				
Interface-Name IP-Address	Adm	Opr(v4/v6)	Mode	Port/SapId PfxState
bwsm 61.177.186.25/29	Up	Up/Down	IES	2/1/3:4013 n/a
dpybx 61.155.65.121/29	Up	Up/Down	IES	2/1/3:4017 n/a
dxsjqqy 61.155.62.97/29	Up	Up/Down	IES	2/1/3:4014 n/a
fangchanju 61.132.38.97/28	Up	Up/Down	IES	1/2/1:4003 n/a
fcjys 61.155.62.177/29	Up	Up/Down	IES	2/2/1:4012 n/a
fgb 61.177.186.153/29	Up	Up/Down	IES	1/2/1:4042 n/a
fzgs 61.155.65.185/29	Up	Up/Down	IES	2/1/3:4042 n/a
glqzf 61.177.181.185/29	Up	Up/Down	IES	1/2/1:4001 n/a
htzq 61.177.181.169/29	Up	Up/Down	IES	1/2/1:4019 n/a
jiansheju 61.132.39.89/29	Up	Up/Down	IES	1/2/1:4002 n/a

jiaoH 61.132.34.169/29	Up	Up/Down	IES	1/2/1:4012 n/a
js-hyz 61.155.62.113/29	Up	Up/Down	IES	2/2/1:4008 n/a
jyss 61.155.65.241/29	Up	Up/Down	IES	2/1/3:4033 n/a
kygj 221.229.116.97/30	Up	Up/Down	IES	2/2/1:4018 n/a
nfzq 61.177.181.49/29	Up	Up/Down	IES	1/2/1:4005 n/a
nh-huaiyang 61.177.186.17/29	Up	Up/Down	IES	1/2/1:4029 n/a
qhdz-yls 61.177.187.9/29	Up	Up/Down	IES	2/2/1:4027 n/a
rsbx 61.177.187.129/28	Up	Up/Down	IES	1/2/1:4007 n/a
sgyz-sxh 61.155.62.89/30	Up	Up/Down	IES	2/2/1:4004 n/a
sgyz-zgh 61.155.62.77/30	Up	Up/Down	IES	2/2/1:4003 n/a
slj 61.177.181.105/29	Up	Up/Down	IES	1/2/1:4010 n/a
srh 61.177.182.121/29	Up	Up/Down	IES	1/2/1:4023 n/a
ssy-10m 61.155.62.169/29	Up	Up/Down	IES	2/2/1:4011 n/a
stkj 61.155.62.201/29	Up	Up/Down	IES	2/2/1:4015 n/a
system 58.220.170.3/32	Up	Up/Down	Network	system n/a
test1 61.155.57.9/30	Up	Up/Down	IES	1/2/1:4048 n/a
tlcz 61.177.187.81/29	Up	Up/Down	IES	2/1/3:4019 n/a
to_DBL12416-1_1 58.220.165.34/30	Up	Up/Down	Network	2/1/1 n/a
to_DBL12416-1_2 58.220.165.38/30	Up	Up/Down	Network	1/1/2 n/a
to_SYL12416-1_1 58.220.165.42/30	Up	Up/Down	Network	1/1/1 n/a
to_SYL12416-1_2 58.220.165.46/30	Up	Up/Down	Network	2/1/2 n/a
to_YZ-SFX-Y-S-HW3928-01 222.189.220.61/30	Up	Up/Down	IES	1/1/4:4002 n/a

<-----省略----->

-----  
Interfaces : 126  
=====

A:YZ-SYL-R-AC7750-01#

A:YZ-SYL-R-AC7750-01# show router interface zhonghang

-----  
Interface Table (Router: Base)  
=====

Interface-Name IP-Address	Adm	Opr(v4/v6)	Mode	Port/SapId PfxState
zhonghang 61.177.181.89/29	Up	Up/Down	IES	1/2/1:4008 n/a

-----

Interfaces : 1  
=====

A:YZ-SYL-R-AC7750-01#

#show route interface name [detail]

A:YZ-SYL-R-AC7750-01# show router interface zhonghang detail

-----  
Interface Table (Router: Base)  
=====

-----  
Interface  
-----

If Name	: zhonghang		
Admin State	: Up	Oper (v4/v6)	: Up/Down
Protocols	: None		
IP Addr/mask	: 61.177.181.89/29	Address Type	: Primary
IGP Inhibit	: Disabled	Broadcast Address	: Host-ones

-----  
Details  
-----

Description :

If Index	: 14	Virt. If Index	: 14
SAP Id	: 1/2/1:4008		
TOS Marking	: Untrusted	If Type	: IES
SNTP B.Cast	: False	IES ID	: 12014008
MAC Address	: 00:03:fa:c7:0f:fa	Arp Timeout	: 14400
IP MTU	: 1500	ICMP Mask Reply	: True
Arp Populate	: Disabled	Host Conn Verify	: Disabled
Cflowd	: None		

Proxy ARP Details

Rem Proxy ARP	: Disabled	Local Proxy ARP	: Disabled
Policies	: none		

DHCP Details

Admin State	: Down	Lease Populate	: 0
Gi-Addr	: 61.177.181.89*	Gi-Addr as Src Ip	: Disabled
Action	: Keep	Trusted	: Disabled

Subscriber Authentication Details

Auth Policy : None

ICMP Details

Redirects	: Number - 100	Time (seconds)	- 10
Unreachables	: Number - 100	Time (seconds)	- 10
TTL Expired	: Number - 100	Time (seconds)	- 10

=====

A:YZ-SYL-R-AC7750-01#

## 2.2 查看 OSPF 状态

#show route ospf status

A:YZ-SYL-R-AC7750-01# show router ospf status



## =====

## OSPF Status

```
=====
OSPF Router Id           : 58.220.170.3
OSPF Version              : 2
OSPF Admin Status        : Enabled
OSPF Oper Status         : Enabled
Graceful Restart         : Disabled
GR Helper Mode           : Disabled
Preference                : 10
External Preference      : 150
Backbone Router          : False
Area Border Router       : False
AS Border Router         : False
Opaque LSA Support       : True
Traffic Engineering Support : False
RFC 1583 Compatible      : True
Demand Exts Support      : False
In Overload State        : False
In External Overflow State : False
Exit Overflow Interval   : 0
Last Overflow Entered     : Never
Last Overflow Exit       : Never
External LSA Limit       : -1
Reference Bandwidth      : 100,000,000 Kbps
Init SPF Delay           : 1000 msec
Sec SPF Delay            : 1000 msec
Max SPF Delay            : 10000 msec
Min LS Arrival Interval  : 1000 msec
Init LSA Gen Delay       : 5000 msec
Sec LSA Gen Delay        : 5000 msec
Max LSA Gen Delay        : 5000 msec
Last Ext SPF Run         : Never
Ext LSA Cksum Sum        : 0x0
OSPF Last Enabled        : 11/22/2006 14:36:17
Export Policies          : None
=====
```

A:YZ-SYL-R-AC7750-01#

#show route ospf statistics

A:YZ-SYL-R-AC7750-01# show router ospf statistics

```
=====
OSPF Statistics
=====
```

Rx Packets	: 0	Tx Packets	: 0
Rx Hellos	: 0	Tx Hellos	: 0
Rx DBDs	: 0	Tx DBDs	: 0
Rx LSRs	: 0	Tx LSRs	: 0
Rx LSUs	: 0	Tx LSUs	: 0
Rx LS Acks	: 0	Tx LS Acks	: 0
New LSAs Recvd	: 0	New LSAs Orig	: 0
Ext LSAs Count	: 0	No of Areas	: 0
No of Interfaces	: 0	No of Neighbors	: 0
Retransmits	: 0	Discards	: 0
Bad Networks	: 0	Bad Virt Links	: 0
Bad Areas	: 0	Bad Dest Addrs	: 0
Bad Auth Types	: 0	Auth Failures	: 0
Bad Neighbors	: 0	Bad Pkt Types	: 0
Bad Lengths	: 0	Bad Hello Int.	: 0
Bad Dead Int.	: 0	Bad Options	: 0
Bad Versions	: 0	Bad Checksums	: 0
Failed SPF Attempts: 0			
CSPF Requests	: 0	CSPF Request Drops	: 0
CSPF Path Found	: 0	CSPF Path Not Found	: 0

```
=====
A:YZ-SYL-R-AC7750-01#
```

## 2.3 查看 OSPF 邻居状态

#show route ospf neighbor

A:YZ-SYL-R-AC7750-01# show router ospf neighbor

```
=====
OSPF Neighbors
=====
```

Interface-Name	Rtr Id	State	Pri	RetxQ	TTL
-----					
-----					
No. of Neighbors: 0					
=====					
A:YZ-SYL-R-AC7750-01#					

## 2.4 查看 OSPF 数据库

#show router ospf database

A:YZ-SYL-R-AC7750-01# show router ospf database

```
=====
OSPF Link State Database (Type : All)
=====
Type      Area Id      Link State Id  Adv Rtr Id      Age  Sequence  Cksum
-----
-----
No. of LSAs: 0
=====
A:YZ-SYL-R-AC7750-01#
```

## 2.5 查看指定的 Area 的 OSPF 工作情况

#show router ospf area (x.x.x.x)

## 2.6 查看该路由器运行 ospf 的端口信息

#show router ospf interface

A:YZ-SYL-R-AC7750-01# show router ospf interface

```
=====
OSPF Interfaces
=====
If Name      Area Id      Designated Rtr  Bkup Desig Rtr  Adm  Oper
-----
```

-----  
No. of OSPF Interfaces: 0  
=====

A:YZ-SYL-R-AC7750-01#

## 2.7 查看全局路由表、静态路由表和 ospf 路由表

#show route route-table

A:YZ-SYL-R-AC7750-01# show router route-table

=====

Route Table (Router: Base)

=====

Dest Prefix	Type	Proto	Age	Pref
Next Hop[Interface Name]				Metric
0.0.0.0/0	Remote	BGP	15d01h12m	170
58.220.165.33			0	
10.10.4.0/24	Remote	BGP	15d01h12m	170
58.220.165.33			0	
10.10.5.0/24	Remote	BGP	15d01h12m	170
58.220.165.33			0	
10.108.0.0/27	Remote	BGP	15d01h12m	170
58.220.165.33			0	
10.108.0.112/28	Remote	BGP	01d01h45m	170
58.220.165.33			0	
10.108.0.128/28	Remote	BGP	15d01h12m	170
58.220.165.33			0	
10.108.0.144/28	Remote	BGP	14d22h39m	170
58.220.165.33			0	
58.220.0.0/17	Remote	BGP	15d01h12m	170

Press any key to continue (Q to quit)

#show router route-table protocol isis

A:YZ-SYL-R-AC7750-01# show router route-table protocol isis

=====

Route Table (Router: Base)

=====

Dest Prefix	Type	Proto	Age	Pref
Next Hop[Interface Name]				Metric
-----				
58.220.165.0/30	Remote	ISIS	15d01h12m	15
58.220.165.33			400	
58.220.165.0/30	Remote	ISIS	15d01h12m	15
58.220.165.37			400	
58.220.165.4/30	Remote	ISIS	15d01h12m	15
58.220.165.33			400	
58.220.165.4/30	Remote	ISIS	15d01h12m	15
58.220.165.37			400	
58.220.165.8/30	Remote	ISIS	15d01h12m	15
58.220.165.41			400	
58.220.165.8/30	Remote	ISIS	15d01h12m	15
58.220.165.45			400	
58.220.165.12/30	Remote	ISIS	15d01h12m	15
58.220.165.41			400	
58.220.165.12/30	Remote	ISIS	15d01h12m	15
Press any key to continue (Q to quit)				

A:YZ-SYL-R-AC7750-01# show router isis hostname

# Hosts

System Id	Hostname
-----	
0582.2017.0001	YZ-DBL-R-AC7750-01
0582.2017.0002	YZ-DBL-R-AC7750-02
0582.2017.0003	YZ-SYL-R-AC7750-01
0582.2017.0004	YZ-SYL-R-AC7750-02
0582.2017.0005	YZ-CN-R-AC7750-01
0582.2017.0006	YZ-CN-R-AC7750-02
0582.2017.0007	YZ-CB-R-AC7750-01
0582.2017.0008	YZ-CB-R-AC7750-02
0582.2017.0033	YZ-KFQ-R-AL7750SR-01
0582.2017.0034	YZ-KFQ-R-AL7750SR-02
0582.2017.0065	YZ-JD655J-R-AC7750-01
0582.2017.0066	YZ-JD688J-R-AC7750-01
0582.2017.0097	YZ-GY461J-R-AC7750-01
0582.2017.0098	YZ-GY464J-R-AC7750-01
0582.2017.0099	YZ-BY822J-R-AC7750-01
0582.2017.0100	YZ-BY826J-R-AC7750-01
0582.2017.0129	YZ-YZ-R-AC7750-01

```

0582.2017.0130      YZ-XP-R-AC7750-01
0582.2017.0131      YZYZ-GL-B-MA5200G-01
0611.7717.6172      YZ-KFQ-R-C12416-03
0611.7717.6173      YZXP-326-R-C12416-01
0611.7717.6174      YZJD-688-R-C12416-02
0611.7717.6217      YZJD-DG-B-MA5200G-01
0611.7717.6218      YZJD-BY-B-MA5200G-01
0611.7717.6223      YZJD-XQ-B-MA5200G-01
0611.7717.6226      YZJD-SJ-B-MA5200G-01
0611.7717.6227      YZYZ-ZZ-B-MA5200G-01
0611.7717.6228      XP326-MA5200G-01
0611.7717.6245      YZBY-BY-R-C12416-01
0611.7717.6246      YZGY-GY-R-C12416-01
0611.7717.6247      YZJD-XNM-R-C12416-01
0611.7717.6249      YZYZ-ZZL-R-C12416-01
0611.7717.6250      YZ-KFQ-R-C12416-02
0611.7717.6251      YZ-SYL-R-C12416-01
0611.7717.6252      YZ-DDL-R-C12416-02
0611.7717.6253      YZ-KFQ-R-C12416-01
0611.7717.6254      YZ-DDL-R-C12416-01

```

```

=====
A:YZ-SYL-R-AC7750-01#

```

```

A:YZ-SYL-R-AC7750-01# show router isis interface

```

```

=====
ISIS Interfaces
=====

```

Interface	Level	CircID	Oper State	L1/L2 Metric
system	L1	1	Up	10/-
to_SYL12416-1_1	L1	2	Up	200/-
to_SYL12416-1_2	L1	3	Up	200/-
to_DBL12416-1_1	L1	4	Up	200/-
to_DBL12416-1_2	L1	5	Up	200/-
to_YZ-SYL-S-HW3952-1	L1	6	Up	200/-
to_YZ-SFXY-S-HW3928-01	L1	7	Up	200/-
to_YZ-SYL-S-SUMMIT-01 G50	L1	121	Up	200/-
to_YZ-SYL-S-SUMMIT-02 G50	L1	122	Up	200/-
to_YZ-SYL-S-SUMMIT-03 G50	L1	123	Up	200/-

```

-----
Interfaces : 10
=====

```

A:YZ-SYL-R-AC7750-01#

A:YZ-SYL-R-AC7750-01# **show router isis ad**

```
=====
ISIS Adjacency
=====
System ID                Usage State Hold Interface
-----
YZ-SYL-R-C12416-01      L1    Up    8    to_SYL12416-1_1
YZ-SYL-R-C12416-01      L1    Up    8    to_SYL12416-1_2
YZ-DDL-R-C12416-02      L1    Up    8    to_DBL12416-1_1
YZ-DDL-R-C12416-02      L1    Up   10    to_DBL12416-1_2
-----
Adjacencies : 4
=====
A:YZ-SYL-R-AC7750-01#
```

A:YZ-SYL-R-AC7750-01# **show router isis routes**

```
=====
Route Table
=====
Prefix                    Metric      Lvl/Typ Ver.   SysID/Hostname
NextHop
-----
58.220.165.0/30           400         1/Int.  5    YZ-DDL-R-C12416*
58.220.165.33
58.220.165.0/30           400         1/Int.  5    YZ-DDL-R-C12416*
58.220.165.37
58.220.165.4/30           400         1/Int.  5    YZ-DDL-R-C12416*
58.220.165.33
58.220.165.4/30           400         1/Int.  5    YZ-DDL-R-C12416*
58.220.165.37
58.220.165.8/30           400         1/Int.  5    YZ-SYL-R-C12416*
58.220.165.41
58.220.165.8/30           400         1/Int.  5    YZ-SYL-R-C12416*
58.220.165.45
58.220.165.12/30          400         1/Int.  5    YZ-SYL-R-C12416*
58.220.165.41
58.220.165.12/30          400         1/Int.  5    YZ-SYL-R-C12416*
```

Press any key to continue (Q to quit)

A:YZ-SYL-R-AC7750-01# **show router isis status**

=====

ISIS Status

=====

System Id : 0582.2017.0003

Admin State : Up

Ipv4 Routing : Enabled

Ipv6 Routing : Disabled

Last Enabled : 11/15/2006 01:39:03

**Level Capability : L1**

Authentication Check : True

Authentication Type : None

CSNP-Authentication : Enabled

HELLO-Authentication : Enabled

PSNP-Authentication : Enabled

Traffic Engineering : Enabled

Graceful Restart : Disabled

GR Helper Mode : Disabled

LSP Lifetime : 1200

LSP Wait : 5 sec (Max) 0 sec (Initial) 1 sec (Second)

Adjacency Check : loose

L1 Auth Type : none

L2 Auth Type : none

L1 CSNP-Authenticati\*: Enabled

L1 HELLO-Authenticat\*: Enabled

L1 PSNP-Authenticati\*: Enabled

L1 Preference : 15

L2 Preference : 18

L1 Ext. Preference : 160

L2 Ext. Preference : 165

L1 Wide Metrics : Enabled

L2 Wide Metrics : Disabled

L1 LSDB Overload : Disabled

L2 LSDB Overload : Disabled

L1 LSPs : 124

L2 LSPs : 0

Last SPF : 11/30/2006 02:33:58

SPF Wait : 10 sec (Max) 1000 ms (Initial) 1000 ms (Second)



Export Policies : None  
Area Addresses : 86.4665.0514

=====

\* indicates that the corresponding row element may have been truncated.

A:YZ-SYL-R-AC7750-01#

A:YZ-SYL-R-AC7750-01# **show router isis statistics**

=====

ISIS Statistics

=====

ISIS Instance	: 1	SPF Runs	: 2070
Purge Initiated	: 797	LSP Regens.	: 2185

CSPF Statistics

Requests	: 0	Request Drops	: 0
Paths Found	: 0	Paths Not Found	: 0

-----

PDU Type	Received	Processed	Dropped	Sent	Retransmitted
LSP	891300	891300	0	610646	0
IIH	1782325	1782325	0	1174256	0
CSNP	2362040	2362040	0	0	0
PSNP	0	0	0	1098	0
Unknown	0	0	0	0	0

=====

A:YZ-SYL-R-AC7750-01#

A:YZ-SYL-R-AC7750-01# **show router isis database**

=====

ISIS Database

=====

LSP ID	Sequence Checksum	Lifetime Attributes
--------	-------------------	---------------------

-----

Displaying Level 1 database

-----

YZ-DBL-R-AC7750-01.00-00	0x3bbf	0x3769	1166	L1
YZ-DBL-R-AC7750-02.00-00	0x3b73	0x64bb	858	L1
YZ-SYL-R-AC7750-01.00-00	0x2f70	0x43c5	1096	L1
YZ-SYL-R-AC7750-02.00-00	0x2f97	0x46f5	1000	L1
YZ-CN-R-AC7750-01.00-00	0x1535	0x8956	909	L1
YZ-CN-R-AC7750-02.00-00	0x1539	0x263c	1168	L1
YZ-CB-R-AC7750-01.00-00	0x1552	0x14a5	881	L1
YZ-CB-R-AC7750-02.00-00	0x1531	0x7292	1013	L1
YZ-KFQ-R-AL7750SR-01.00-00	0x1a84	0x1c8	601	L1
YZ-KFQ-R-AL7750SR-02.00-00	0x1a8f	0xaa f1	1058	L1
YZ-JD655J-R-AC7750-01.00-00	0x327a	0x37a9	1179	L1
YZ-JD655J-R-AC7750-01.01-00	0x1b9d	0x750c	611	L1
YZ-JD688J-R-AC7750-01.00-00	0x26f7	0x8a88	782	L1
YZ-GY461J-R-AC7750-01.00-00	0x3031	0x6449	624	L1
YZ-GY461J-R-AC7750-01.02-00	0x94b	0x532f	971	L1
YZ-GY464J-R-AC7750-01.00-00	0x302d	0xa774	836	L1
YZ-BY822J-R-AC7750-01.00-00	0x2ad3	0x87c0	658	L1
YZ-BY826J-R-AC7750-01.00-00	0x26f3	0x759f	1007	L1
YZ-YZ-R-AC7750-01.00-00	0x343c	0x9d7e	714	L1
YZ-XP-R-AC7750-01.00-00	0x1b9a	0xc90d	787	L1
YZYZ-GL-B-MA5200G-01.00-00	0x5bf	0xb415	433	L1
YZYZ-GL-B-MA5200G-01.02-00	0x5a8	0x128e	433	L1
YZ-KFQ-R-C12416-03.00-00	0x20ed	0x973a	985	L1L2
YZ-KFQ-R-C12416-03.01-00	0x1154	0x1d75	545	L1L2
YZ-KFQ-R-C12416-03.02-00	0x1232	0x7af	527	L1L2
YZ-KFQ-R-C12416-03.03-00	0x8	0x3226	656	L1L2
YZ-KFQ-R-C12416-03.04-00	0x112e	0xab74	820	L1L2
YZ-KFQ-R-C12416-03.05-00	0x1103	0xf3a	448	L1L2
YZ-KFQ-R-C12416-03.06-00	0x10f1	0x2d2d	893	L1L2
YZXP-326-R-C12416-01.00-00	0x157c	0xea02	1109	L1L2
YZXP-326-R-C12416-01.01-00	0x1162	0xed95	684	L1L2
YZXP-326-R-C12416-01.02-00	0xf91	0xa2b1	877	L1L2
YZXP-326-R-C12416-01.03-00	0x123a	0x6fa4	658	L1L2
YZXP-326-R-C12416-01.04-00	0x11c2	0xcdc4	967	L1L2
YZXP-326-R-C12416-01.05-00	0xed3	0x2feb	942	L1L2
YZJD-688-R-C12416-02.00-00	0x1188	0x3a09	677	L1L2

Press any key to continue (Q to quit)

#show router static-route

A:YZ-SYL-R-AC7750-01# show router static-route

=====

Static Route Table (Router: Base)

=====

Prefix	Tag	Met	Pref	Type	Act
Next Hop	Interface				
61.132.34.168/29	0	1	200	BH	Y
n/a	n/a				
61.132.38.96/28	0	1	200	BH	Y
n/a	n/a				
61.132.39.88/29	0	1	200	BH	Y
n/a	n/a				
61.155.57.0/29	0	1	200	BH	Y
n/a	n/a				
61.155.57.8/30	0	1	200	BH	Y
n/a	n/a				
61.155.57.12/30	0	1	200	BH	Y
n/a	n/a				
61.155.57.16/29	0	1	200	BH	Y
n/a	n/a				
61.155.57.32/29	0	1	200	BH	Y

Press any key to continue (Q to quit)

## 2.8 查看 ISIS 邻居状态

#show route isis adjacency

A:YZ-SYL-R-AC7750-01# show router isis ad

=====

## ISIS Adjacency

System ID	Usage	State	Hold	Interface
YZ-SYL-R-C12416-01	L1	Up	8	to_SYL12416-1_1
YZ-SYL-R-C12416-01	L1	Up	9	to_SYL12416-1_2
YZ-DDL-R-C12416-02	L1	Up	9	to_DBL12416-1_1
YZ-DDL-R-C12416-02	L1	Up	9	to_DBL12416-1_2

Adjacencies : 4

A:YZ-SYL-R-AC7750-01#

## 2.9 查看 ARP

#show route arp

A:YZ-SYL-R-AC7750-01# show router arp

ARP Table (Router: Base)				
IP Address	MAC Address	Expiry	Type	Interface
58.220.170.3	00:03:fa:df:fb:56	00h00m00s	0th	system
58.220.165.41	00:13:5f:12:7c:03	01h15m32s	Dyn[I]	to_SYL12416-1_1
58.220.165.42	00:03:fa:c6:ff:4c	00h00m00s	0th[I]	to_SYL12416-1_1
58.220.165.45	00:13:5f:12:7d:01	01h15m32s	Dyn[I]	to_SYL12416-1_2
58.220.165.46	00:03:fa:c7:0c:f9	00h00m00s	0th[I]	to_SYL12416-1_2
58.220.165.33	00:13:5f:12:e0:01	01h15m23s	Dyn[I]	to_DBL12416-1_1
58.220.165.34	00:03:fa:c7:0c:f8	00h00m00s	0th[I]	to_DBL12416-1_1
58.220.165.37	00:13:5f:12:e0:00	01h15m23s	Dyn[I]	to_DBL12416-1_2
58.220.165.38	00:03:fa:c6:ff:4d	00h00m00s	0th[I]	to_DBL12416-1_2
222.189.220.57	00:03:fa:c6:ff:4e	00h00m00s	0th[I]	to_YZ-SYL-S-HW3952-1
222.189.220.58	00:0f:e2:12:f0:69	03h53m27s	Dyn[I]	to_YZ-SYL-S-HW3952-1
222.189.220.61	00:03:fa:c6:ff:4f	00h00m00s	0th[I]	to_YZ-SFXY-S-HW3928-01
222.189.220.62	00:0f:e2:13:79:a7	03h53m01s	Dyn[I]	to_YZ-SFXY-S-HW3928-01
61.177.181.185	00:03:fa:c7:0f:fa	00h00m00s	0th[I]	glqzf
61.177.181.188	00:e0:0f:26:c8:38	03h49m09s	Dyn[I]	glqzf
61.132.39.89	00:03:fa:c7:0f:fa	00h00m00s	0th[I]	jiansheju

Press any key to continue (Q to quit)

## 2.10 查看 BGP 邻居状态

#show router bgp neighbor ip-address

A:YZ-SYL-R-AC7750-01# show router bgp neighbor

=====

BGP Neighbor

=====

-----

Peer : 61.177.176.253

Group : ibgp

-----

Peer AS	: 64665	Peer Port	: 23008
Peer Address	: 61.177.176.253		
Local AS	: 64665	Local Port	: 179
Local Address	: 58.220.170.3		
Peer Type	: Internal		
State	: Established	Last State	: Established
Last Event	: recvKeepAlive		
Last Error	: Cease		
Local Family	: IPv4 VPN-IPv4		
Remote Family	: IPv4 VPN-IPv4		
Hold Time	: 90	Keep Alive	: 30
Active Hold Time	: 90	Active Keep Alive	: 30
Cluster Id	: None		
Preference	: 170	Num of Flaps	: 381
Recd. Paths	: 75		
IPv4 Recd. Prefixes	: 1073	IPv4 Active Prefixes	: 943
IPv4 Suppressed Pfxs	: 0	VPN-IPv4 Suppr. Pfxs	: 0
VPN-IPv4 Recd. Pfxs	: 0	VPN-IPv4 Active Pfxs	: 0
Mc IPv4 Recd. Pfxs	: 0	Mc IPv4 Active Pfxs	: 0
Mc IPv4 Suppr. Pfxs	: 0	IPv6 Suppressed Pfxs	: 0
IPv6 Recd. Prefixes	: 0	IPv6 Active Prefixes	: 0
Input Queue	: 0	Output Queue	: 0
i/p Messages	: 43701	o/p Messages	: 43442
i/p Octets	: 857068	o/p Octets	: 826116
i/p Updates	: 336	o/p Updates	: 6
TTL Security	: Disabled	Min TTL Value	: n/a
Graceful Restart	: Disabled	Stale Routes Time	: n/a

Advertise Inactive : Disabled      Peer Tracking : Disabled  
 Local Capability : RouteRefresh MP-BGP  
 Remote Capability : RouteRefresh MP-BGP  
 Import Policy : None Specified / Inherited  
 Export Policy : prefix2bgp

Peer : 61.177.176.254

Group : ibgp

Peer AS : 64665      Peer Port : 38662  
 Peer Address : 61.177.176.254  
 Local AS : 64665      Local Port : 179  
 Local Address : 58.220.170.3  
 Peer Type : Internal  
 State : Established      Last State : Established  
 Last Event : recvKeepAlive  
 Last Error : Cease  
 Local Family : IPv4 VPN-IPv4  
 Remote Family : IPv4 VPN-IPv4  
 Hold Time : 90      Keep Alive : 30  
 Active Hold Time : 90      Active Keep Alive : 30  
 Cluster Id : None  
 Preference : 170      Num of Flaps : 707  
 Recd. Paths : 101  
 IPv4 Recd. Prefixes : 1073      IPv4 Active Prefixes : 943  
 IPv4 Suppressed Pfxs : 0      VPN-IPv4 Suppr. Pfxs : 0  
 VPN-IPv4 Recd. Pfxs : 0      VPN-IPv4 Active Pfxs : 0  
 Mc IPv4 Recd. Pfxs. : 0      Mc IPv4 Active Pfxs. : 0  
 Mc IPv4 Suppr. Pfxs : 0      IPv6 Suppressed Pfxs : 0  
 IPv6 Recd. Prefixes : 0      IPv6 Active Prefixes : 0  
 Input Queue : 0      Output Queue : 0  
 i/p Messages : 43725      o/p Messages : 43618  
 i/p Octets : 860236      o/p Octets : 829504  
 i/p Updates : 360      o/p Updates : 7  
 TTL Security : Disabled      Min TTL Value : n/a  
 Graceful Restart : Disabled      Stale Routes Time : n/a  
 Advertise Inactive : Disabled      Peer Tracking : Disabled  
 Local Capability : RouteRefresh MP-BGP  
 Remote Capability : RouteRefresh MP-BGP  
 Import Policy : None Specified / Inherited  
 Export Policy : prefix2bgp

Neighbors : 2

A:YZ-SYL-R-AC7750-01#

#Show router bgp summary

A:YZ-SYL-R-AC7750-01# show router bgp summary

```

=====
BGP Router ID : 58.220.170.3      AS : 64665    Local AS : 64665
=====
BGP Admin State      : Up          BGP Oper State      : Up
Number of Peer Groups : 1          Number of Peers     : 2
Total BGP Paths       : 94          Total Path Memory   : 12712
Total BGP Active Rts. : 1886        Total BGP Rts.      : 2146
Total Supressed Rts.  : 0           Total Hist. Rts.    : 0
Total Decay Rts.      : 0

Total VPN Peer Groups : 0          Total VPN Peers     : 0
Total VPN Local Rts.   : 0
Total VPN Remote Rts.  : 0          Total VPN Remote Active Rts.: 0
Total VPN Supp. Rts.   : 0          Total VPN Hist. Rts. : 0
Total VPN Decay Rts.   : 0

Total IPv6 Remote Rts. : 0          Total IPv6 Rem. Active Rts. : 0

```

BGP Summary

Neighbor

AS	PktRcvd	InQ	Up/Down	State	Rcv/Act/Sent (IPv4)	Rcv/Act/Sent (VpnIPv4)	Rcv/Act/Sent (IPv6)	Rcv/Act/Sent (MCastIPv4)
61.177.176.253	64665	43702	0 15d01h16m	1073/943/116				
		43443	0	0/0/0				
				IPv6 Incapable				
				MCAST-IPv4 Incapable				
61.177.176.254	64665	43725	0 15d01h16m	1073/943/116				

43619 0 0/0/0  
IPv6 Incapable  
MCAST-IPv4 Incapable

=====

A:YZ-SYL-R-AC7750-01#

#Show router bgp group group-name

A:YZ-SYL-R-AC7750-01# show router bgp group

=====

BGP Group

=====

-----

Group : ibgp

-----

Group Type	: Internal	State	: Up
Peer AS	: 64665	Local AS	: 64665
Local Address	: 58.220.170.3	Loop Detect	: Ignore
Import Policy	: None Specified / Inherited		
Export Policy	: prefix2bgp		
Hold Time	: 90	Keep Alive	: 30
Cluster Id	: None	Client Reflect	: Enabled
NLRI	: Unicast	Preference	: 170
TTL Security	: Disabled	Min TTL Value	: n/a
Graceful Restart	: Disabled	Stale Routes Time	: n/a

List of Peers

- 61.177.176.253  
- 61.177.176.254

Total Peers : 2 Established : 2

-----

Peer Groups : 1

=====

A:YZ-SYL-R-AC7750-01#



## 2.11 查看 LDP 连接状态

#Show router ldp session

A:YZ-SYL-R-AC7750-01# show router ldp session

```
=====
```

LDP Sessions

```
=====
```

Peer LDP Id	Adj Type State	Mesg Sent	Mesg Recv	Up Time
-----				
58.220.170.1:0	Targeted Established	22820	22819	1d 10:43:12
58.220.170.2:0	Targeted Established	22821	22823	1d 10:43:22
58.220.170.4:0	Targeted Established	22801	22803	1d 10:41:45
58.220.170.5:0	Targeted Established	22788	22791	1d 10:40:26
58.220.170.6:0	Targeted Established	22771	22773	1d 10:38:47
58.220.170.7:0	Targeted Established	22753	22754	1d 10:37:08
58.220.170.8:0	Targeted Established	22727	22729	1d 10:34:53
58.220.170.33:0	Targeted Established	22822	22831	1d 10:43:25
58.220.170.34:0	Targeted Established	22821	22832	1d 10:43:25
58.220.170.65:0	Targeted Established	22702	22704	1d 10:32:35
58.220.170.97:0	Targeted Established	22658	22660	1d 10:28:32
58.220.170.98:0	Targeted Established	22640	22642	1d 10:26:55
58.220.170.99:0	Targeted Established	22625	22627	1d 10:25:32
58.220.170.100:0	Targeted Established	22607	22609	1d 10:23:51
58.220.170.130:0	Targeted Established	22569	22571	1d 10:20:28
61.177.176.251:0	Link Established	76593	72401	1d 10:42:49
61.177.176.252:0	Link Established	76609	72449	1d 10:43:06

```
-----
```

No. of Sessions: 17

A:YZ-SYL-R-AC7750-01#

A:YZ-SYL-R-AC7750-01# show router ldp peer

```
=====
```

LDP Peers

```
=====
```

Peer	Adm	Opr	Hello	Hold	KA	KA	Passive	Auto
------	-----	-----	-------	------	----	----	---------	------

			Factor	Time	Factor	Timeout	Mode	Created
-----								
58.220.170.1	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.2	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.4	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.5	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.6	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.7	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.8	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.33	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.34	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.65	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.66	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.97	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.98	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.99	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.100	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.129	Up	Up	3	45	4	40	Disabled	Yes
58.220.170.130	Up	Up	3	45	4	40	Disabled	Yes

No. of Peers: 17

A:YZ-SYL-R-AC7750-01#

A:YZ-SYL-R-AC7750-01# **show router ldp interface**

#### LDP Interfaces

Interface	Adm	Opr	Hello Factor	Hold Time	KA Factor	KA Timeout	Transport Address
-----							
to_SYL12416-1_1	Up	Up	3	15	3	30	System
to_SYL12416-1_2	Up	Up	3	15	3	30	System
to_DBL12416-1_1	Up	Up	3	15	3	30	System
to_DBL12416-1_2	Up	Up	3	15	3	30	System

No. of Interfaces: 4

A:YZ-SYL-R-AC7750-01# **show router ldp disc**

#### LDP Hello Adjacencies

Interface Name	Local Addr	Peer Addr	AdjType	State
N/A	58.220.170.3	58.220.170.1	Targ	Estab
N/A	58.220.170.3	58.220.170.2	Targ	Estab
N/A	58.220.170.3	58.220.170.4	Targ	Estab
N/A	58.220.170.3	58.220.170.5	Targ	Estab
N/A	58.220.170.3	58.220.170.6	Targ	Estab
N/A	58.220.170.3	58.220.170.7	Targ	Estab
N/A	58.220.170.3	58.220.170.8	Targ	Estab
N/A	58.220.170.3	58.220.170.33	Targ	Estab
N/A	58.220.170.3	58.220.170.34	Targ	Estab
N/A	58.220.170.3	58.220.170.65	Targ	Estab
N/A	58.220.170.3	58.220.170.66	Targ	Trying
N/A	58.220.170.3	58.220.170.97	Targ	Estab
N/A	58.220.170.3	58.220.170.98	Targ	Estab
N/A	58.220.170.3	58.220.170.99	Targ	Estab
N/A	58.220.170.3	58.220.170.100	Targ	Estab
N/A	58.220.170.3	58.220.170.129	Targ	Trying

Press any key to continue (Q to quit)

A:YZ-SYL-R-AC7750-01# **show router ldp parameters**

LDP Parameters (LSR ID 58.220.170.3)

#### Interface Parameters

Keepalive Timeout	: 30 sec	Keepalive Factor	: 3
Hold Time	: 15 sec	Hello Factor	: 3
Propagate Policy	: system	Transport Address	: system
Deaggregate FECs	: False	Route Preference	: 9
Label Distribution	: downstreamUnsolicited	Label Retention	: liberal
Control Mode	: ordered	Loop Detection	: none

#### Targeted Session Parameters

Keepalive Timeout	: 40 sec	Keepalive Factor	: 4
Hold Time	: 45 sec	Hello Factor	: 3
Passive Mode	: False	Targeted Sessions	: Enabled

```
=====
A:YZ-SYL-R-AC7750-01# show router ldp status
```

```
=====
LDP Status for LSR ID 58.220.170.3
```

```
=====
Admin State      : Up                Oper State      : Up
Created at       : 11/28/2006 16:13:58 Up Time         : 1d 10:44:39
Oper Down Reason : n/a              Oper Down Events : 0
Last Change      : 11/28/2006 16:13:58 Tunn Down Damp Time : 3 sec
Import Policies  : None             Export Policies  : None
Active Adjacencies : 19             Active Sessions  : 17
Active Interfaces : 4               Inactive Interfaces : 0
Active Peers     : 17              Inactive Peers   : 0
Addr FECs Sent   : 400             Addr FECs Recv   : 2024
Serv FECs Sent   : 0               Serv FECs Recv   : 0
Attempted Sessions : 4
No Hello Err     : 0               Param Adv Err    : 0
Max PDU Err      : 0               Label Range Err  : 0
Bad LDP Id Err   : 0               Bad PDU Len Err  : 0
Bad Mesg Len Err : 0               Bad TLV Len Err  : 0
Malformed TLV Err : 0              Keepalive Expired Err: 6
Shutdown Notif Sent: 0             Shutdown Notif Recv : 2
=====
```

```
A:YZ-SYL-R-AC7750-01#
```

## 2.12 查看 MPLS 接口

```
# show router mpls interface
```

```
A:YZ-SYL-R-AC7750-01# show router mpls interface
```

```
=====
MPLS Interfaces
```

```
=====
Interface          Port-id          Adm      Opr
-----
system             system          Up       Up
  Admin Groups      None
to_SYL12416-1_1    1/1/1          Up       Up
=====
```

Admin Groups	None		
to_SYL12416-1_2	2/1/2	Up	Up
Admin Groups	None		
to_DBL12416-1_1	2/1/1	Up	Up
Admin Groups	None		
to_DBL12416-1_2	1/1/2	Up	Up
Admin Groups	None		

-----  
Interfaces : 5  
=====

A:YZ-SYL-R-AC7750-01#

### 3、Service 业务状态查看

#### 3.1 查看用户信息

#show service customer customer-id

A:YZ-SYL-R-AC7750-01# show service customer 11

=====

Customer 11

=====

Customer-ID : 11

Description : to\_VPRN&VPLS

-----

Multi Service Site

-----

No Matching Entries

=====

A:YZ-SYL-R-AC7750-01#

### 3.2 查看 service 相关配置信息

#show service id \*\*\* all

A:YZ-SYL-R-AC7750-01# show service id 11034001 all

#### Service Detailed Information

Service Id : 11034001 Vpn Id : 0  
Service Type : IES  
Customer Id : 10  
Last Status Change: 11/15/2006 01:39:53  
Last Mgmt Change : 11/15/2006 01:39:07  
Admin State : Up Oper State : Up  
SAP Count : 1

#### Service Destination Points(SDPs)

No Matching Entries

#### Service Access Points

#### SAP 1/1/3:4001

Service Id : 11034001  
SAP : 1/1/3:4001 Encap : q-tag  
Dot1Q Ethertype : 0x8100 QinQ Ethertype : 0x8100  
  
Admin State : Up Oper State : Up  
Flags : None  
Last Status Change : 11/15/2006 01:39:53  
Last Mgmt Change : 11/15/2006 01:39:07  
Admin MTU : 1518 Oper MTU : 1518  
Ingress qos-policy : 1 Egress qos-policy : 1  
Shared Q plcy : n/a Multipoint shared : Disabled  
Ingr IP Fltr-Id : n/a Egr IP Fltr-Id : n/a  
Ingr Mac Fltr-Id : n/a Egr Mac Fltr-Id : n/a

Ingr IPv6 Fltr-Id : n/a  
tod-suite : None

Egr IPv6 Fltr-Id : n/a

Multi Svc Site : None  
Acct. Pol : None

Collect Stats : Disabled

Anti Spoofing : None

Nbr Static Hosts : 0

-----  
Subscriber Management

-----  
Admin State : Down  
Def Sub-Profile : None  
Def SLA-Profile : None  
Sub-Ident-Policy : None

MAC DA Hashing : False

Subscriber Limit : 1  
Single-Sub-Parameters  
Prof Traffic Only : False  
Non-Sub-Traffic : N/A

-----  
Sap Statistics

-----  
Packets Octets  
Forwarding Engine Stats  
Dropped : 0 0  
Off. HiPrio : 0 0  
Off. LowPrio : 7113 499095  
Off. Uncolor : 0 0

Queueing Stats(Ingress QoS Policy 1)

Dro. HiPrio : 0 0  
Dro. LowPrio : 0 0  
For. InProf : 0 0  
For. OutProf : 7113 499095

Queueing Stats(Egress QoS Policy 1)

Dro. InProf : 0 0  
Dro. OutProf : 0 0  
For. InProf : 84443 5820367  
For. OutProf : 7304 691091

-----  
Sap per Queue stats

-----  
Packets Octets

## Ingress Queue 1 (Unicast) (Priority)

Off. HiPrio	: 0	0
Off. LoPrio	: 7113	499095
Dro. HiPrio	: 0	0
Dro. LoPrio	: 0	0
For. InProf	: 0	0
For. OutProf	: 7113	499095

## Egress Queue 1

For. InProf	: 84443	5820367
For. OutProf	: 7304	691091
Dro. InProf	: 0	0
Dro. OutProf	: 0	0

-----  
Service Interfaces  
----------  
Interface  
-----

If Name	: to_YZ-SYL-S-HW3952*		
Admin State	: Up	Oper (v4/v6)	: Up/Down
Protocols	: ISIS		
IP Addr/mask	: 222.189.220.57/30	Address Type	: Primary
IGP Inhibit	: Disabled	Broadcast Address	: Host-ones

  
-----Details  
-----

## Description :

If Index	: 6	Virt. If Index	: 6
SAP Id	: 1/1/3:4001		
TOS Marking	: Untrusted	If Type	: IES
SNTP B.Cast	: False	IES ID	: 11034001
MAC Address	: 00:03:fa:c6:ff:4e	Arp Timeout	: 14400
IP MTU	: 1500	ICMP Mask Reply	: True
Arp Populate	: Disabled	Host Conn Verify	: Disabled
Cflowd	: None		

## Proxy ARP Details

Rem Proxy ARP	: Disabled	Local Proxy ARP	: Disabled
Policies	: none		



#### DHCP Details

Admin State : Down Lease Populate : 0  
Gi-Addr : 222.189.220.57\* Gi-Addr as Src Ip : Disabled  
Action : Keep Trusted : Disabled

#### Subscriber Authentication Details

Auth Policy : None

#### ICMP Details

Redirects : Number - 100 Time (seconds) - 10  
Unreachables : Number - 100 Time (seconds) - 10  
TTL Expired : Number - 100 Time (seconds) - 10

=====

\* indicates that the corresponding row element may have been truncated.

A:YZ-SYL-R-AC7750-01#

### 3.3 查看目前运行的 service

#show service service-using

A:YZ-SYL-R-AC7750-01# show service service-using

#### Services

=====

ServiceId	Type	Adm	Opr	CustomerId	Last Mgmt Change
11034001	IES	Up	Up	10	11/15/2006 01:39:07
11044002	IES	Up	Up	10	11/15/2006 01:39:07
12014000	IES	Up	Up	10	11/15/2006 04:08:20
12014001	IES	Up	Up	10	11/15/2006 03:20:02
12014002	IES	Up	Up	10	11/15/2006 03:20:02
12014003	IES	Up	Up	10	11/15/2006 03:20:02
12014005	IES	Up	Up	10	11/15/2006 03:20:02
12014006	IES	Up	Up	10	11/15/2006 03:20:02
12014007	IES	Up	Up	10	11/15/2006 03:20:03
12014008	IES	Up	Up	10	11/15/2006 03:20:03
12014009	IES	Up	Up	10	11/15/2006 03:20:03
12014010	IES	Up	Up	10	11/15/2006 03:20:03

12014011	IES	Up	Up	10	11/15/2006 03:20:03
12014012	IES	Up	Up	10	11/15/2006 03:20:03
12014013	IES	Up	Up	10	11/15/2006 03:20:03
12014015	IES	Up	Up	10	11/15/2006 03:20:03
12014016	IES	Up	Up	10	11/15/2006 03:20:03
12014017	IES	Up	Up	10	11/15/2006 03:20:03
12014018	IES	Up	Up	10	11/15/2006 03:20:04
12014019	IES	Up	Up	10	11/15/2006 03:20:04
12014020	IES	Up	Up	10	11/15/2006 03:20:04
12014021	IES	Up	Up	10	11/15/2006 03:20:04
12014022	IES	Up	Up	10	11/15/2006 03:20:04
12014023	IES	Up	Up	10	11/15/2006 03:20:04
12014024	IES	Up	Up	10	11/15/2006 03:20:04
12014025	IES	Up	Up	10	11/15/2006 03:20:04
12014026	IES	Up	Up	10	11/15/2006 03:20:04
12014027	IES	Up	Up	10	11/15/2006 03:20:04
12014028	IES	Up	Up	10	11/15/2006 03:20:05
12014029	IES	Up	Up	10	11/15/2006 03:20:05
12014032	IES	Up	Up	10	11/15/2006 03:20:05
12014033	IES	Up	Up	10	11/15/2006 03:20:05
12014034	IES	Up	Up	10	11/15/2006 03:20:05
12014035	IES	Up	Up	10	11/19/2006 10:10:07
12014036	IES	Up	Up	10	11/15/2006 03:20:05
12014037	IES	Up	Up	10	11/15/2006 03:20:05
12014038	IES	Up	Up	10	11/15/2006 03:20:05
12014039	IES	Up	Up	10	11/15/2006 03:20:05
12014040	IES	Up	Up	10	11/15/2006 03:20:05

Press any key to continue (Q to quit)

### 3.4 查看 VPRN 的路由表

# show router 100 route-table

A:YZ-SYL-R-AC7750-02# show service service-using vprn

```
=====
Services [vprn]
=====
```

ServiceId	Type	Adm	Opr	CustomerId	Last Mgmt Change
-----					

514001001    VPRN    Up    Up    11    11/29/2006 17:24:51

-----  
Matching Services : 1  
-----  
=====

A:YZ-SYL-R-AC7750-02# show router 514001001 route-table

=====

Route Table (Service: 514001001)

=====

Dest Prefix	Type	Proto	Age	Pref
Next Hop[Interface Name]				Metric
172.17.22.0/24	Remote	Static	09h37m52s	5
192.168.1.1			1	
172.17.22.0/29	Remote	BGP VPN	09h37m46s	170
61.177.176.226			0	
172.17.22.16/29	Remote	BGP VPN	09h37m46s	170
61.177.176.227			0	
192.168.1.0/30	Local	Local	09h37m52s	0
wuxiandian			0	

-----

No. of Routes: 4

=====

A:YZ-SYL-R-AC7750-02#

### 3.5 查看 VPRN 的 arp

# show router \*\*\* arp

A:YZ-SYL-R-AC7750-02# show router 514001001 arp

=====

ARP Table (Service: 514001001)

=====

IP Address	MAC Address	Expiry	Type	Interface
192.168.1.2	00:03:fa:c7:0d:d4	00h00m00s	0th[I]	wuxiandian

-----  
No. of ARP Entries: 1

=====  
A:YZ-SYL-R-AC7750-02#

### 3.6 查看 VPRN 下的所有接口

# show router 100 interface

A:YZ-SYL-R-AC7750-02# show router 514001001 interface

=====  
Interface Table (Service: 514001001)

Interface-Name IP-Address	Adm	Opr(v4/v6)	Mode	Port/SapId PfxState
wuxiandian 192.168.1.2/30	Up	Up	VPRN	2/2/1:4029 n/a

-----  
Interfaces : 1

=====  
A:YZ-SYL-R-AC7750-02#

## 4、配置安全及流量检查

### 4.1 查看设备配置是否准确

#info

A:YZ-SYL-R-AC7750-02# info

```
# TiMOS-C-4.0.R3 cpm/hops ALCATEL SR 7750 Copyright (c) 2000-2006 Alcatel.  
# All rights reserved. All use subject to applicable license agreements.  
# Built on Wed Jul 5 09:06:04 PST 2006 by builder in /rel4.0/b1/R3/panos/main
```

```
# Generated WED NOV 29 19:04:17 2006 UTC
```

```
exit all
```

```
configure
```

```
#-----
```

```
echo "System Configuration"
```

```
#-----
```

```
    system
```

```
        name "YZ-SYL-R-AC7750-02"
```

```
        chassis-mode c
```

```
        snmp
```

```
            packet-size 9216
```

```
        exit
```

```
        login-control
```

```
            telnet
```

```
                inbound-max-sessions 7
```

```
                outbound-max-sessions 7
```

```
            exit
```

```
            no login-banner
```

```
        exit
```

```
        time
```

```
            sntp
```

```
                shutdown
```

```
            exit
```

```
            zone BEIJ 08
```

```
        exit
```

```
        thresholds
```

```
            rmon
```

```
            exit
```

```
        exit
```

```
    exit
```

```
#-----
```

```
echo "Log Configuration"
```

```
Press any key to continue (Q to quit)
```

## 4.2 查看 log 信息

#show log log-id 99

A:YZ-SYL-R-AC7750-02# show log log-id 99

```
=====
Event Log 99
=====
```

Description : Default System Log

Memory Log contents [size=500 next event=23359 (wrapped)]

23358 2006/11/30 02:45:28.96 BEIJ MINOR: IP #2008 - ARP

"duplicate IP address 61.155.65.205 with 00:03:fa:c6:ff:89 on interface wb-heping-2"

23357 2006/11/30 02:15:25.92 BEIJ MINOR: IP #2008 - ARP

"duplicate IP address 61.155.65.205 with 00:03:fa:c6:ff:89 on interface wb-heping-2"

23356 2006/11/30 01:45:22.88 BEIJ MINOR: IP #2008 - ARP

"duplicate IP address 61.155.65.205 with 00:03:fa:c6:ff:89 on interface wb-heping-2"

23355 2006/11/30 01:15:19.83 BEIJ MINOR: IP #2008 - ARP

"duplicate IP address 61.155.65.205 with 00:03:fa:c6:ff:89 on interface wb-heping-2"

23354 2006/11/30 00:45:16.79 BEIJ MINOR: IP #2008 - ARP

"duplicate IP address 61.155.65.205 with 00:03:fa:c6:ff:89 on interface wb-heping-2"

23353 2006/11/30 00:15:13.75 BEIJ MINOR: IP #2008 - ARP

"duplicate IP address 61.155.65.205 with 00:03:fa:c6:ff:89 on interface wb-heping-2"

23352 2006/11/29 23:45:10.71 BEIJ MINOR: IP #2008 - ARP

"duplicate IP address 61.155.65.205 with 00:03:fa:c6:ff:89 on interface wb-heping-2"

23351 2006/11/29 23:34:42.55 BEIJ WARNING: SYSTEM #2008 - LDP

"vRtrLdpSessionTable: Virtual Router 1, Peer 58.220.170.66:0. managed object deleted"

23350 2006/11/29 23:34:42.55 BEIJ WARNING: SYSTEM #2009 - LDP

"Status of vRtrLdpSessionTable: Virtual Router 1, Peer 58.220.170.66:0. changed administrative state: outOfService, operational state: outOfService"

23349 2006/11/29 23:34:00.55 BEIJ WARNING: SYSTEM #2008 - LDP

"vRtrLdpSessionTable: Virtual Router 1, Peer 58.220.170.66:0. managed object deleted"

23348 2006/11/29 23:34:00.55 BEIJ WARNING: SYSTEM #2009 - LDP

Press any key to continue (Q to quit)

#show log log-id 100

A:YZ-SYL-R-AC7750-02# show log log-id 100

=====  
Event Log 100  
=====

Description : Default Serious Errors Log

warning: 23330 events dropped from log

Memory Log contents [size=500 next event=29 (not wrapped)]

28 2006/11/29 17:27:36.73 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds  
"Configuration file saved to: cf3:\config.cfg"

27 2006/11/29 04:49:10.07 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11  
"Log file cf3:\log\log1111-20061127-204909 on compact flash cf3 has been rolled over"

26 2006/11/28 16:17:05.35 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds  
"Configuration file saved to: cf3:\config.cfg"

25 2006/11/28 04:49:09.86 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11  
"Log file cf3:\log\log1111-20061126-204452 on compact flash cf3 has been rolled over"

24 2006/11/27 04:44:52.17 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11  
"Log file cf3:\log\log1111-20061125-204044 on compact flash cf3 has been rolled over"

23 2006/11/26 04:40:44.82 BEIJ MAJOR: LOGGER #2008 - log-id 11 file-id 11  
"Log file cf3:\log\log1111-20061124-045421 on compact flash cf3 has been rolled over"

22 2006/11/21 11:06:48.67 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds  
"Configuration file saved to: cf3:\config.cfg"

21 2006/11/15 15:09:42.89 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds  
"Configuration file saved to: cf3:\config.cfg"

20 2006/11/15 05:01:39.41 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds

"Configuration file saved to: cf3:\config.cfg"

19 2006/11/14 23:48:51.43 BEIJ MAJOR: SYSTEM #2002 - Configuration Save Succeeds

"Configuration file saved to: cf3:\config.cfg"

Press any key to continue (Q to quit)

#### 4.3 查看当前端口实时流量

#monitor port <port-id>

A:YZ-SYL-R-AC7750-02# monitor port 1/1/1 interval 3 rate

=====  
Monitor statistics for Port 1/1/1  
=====

	Input	Output
-----		
-----		
At time t = 0 sec (Base Statistics)		
-----		
Octets	6894419817869	6043501480664
Packets	8953221895	11282426943
Errors	0	0

-----  
At time t = 3 sec (Mode: Rate)

Octets	3513259	3334362
Packets	4132	5731
Errors	0	0
Utilization (% of port capacity)	2.81	2.66

-----  
At time t = 6 sec (Mode: Rate)

Octets	3879431	3504425
Packets	4383	5543
Errors	0	0
Utilization (% of port capacity)	3.10	2.80

^C

A:YZ-SYL-R-AC7750-02#